BIGDATA Storage with Hadoop (WebHDFS)

Use Curl command/Mozilla REST client/python/ruby/java/.net clients to perform following tasks on HDFS via WebHDFS API. This assignment expecting you to work with curl command to interact with WebHDFS API.

Part 1. Creating a new directory in HDFS

create tmp directory under /user/cloudera:
curl -i -X PUT http://localhost:50070/webhdfs/v1/user/cloudera/tmp?user.name=cloudera&op=MKDIRS

Part 2. Changing the permissions of file/directory available in HDFS
provide the read, write and execute permissions for /user/cloudera/tmp directory:
curl -i -X PUT http://localhost:50070/webhdfs/v1/user/cloudera/tmp?user.name=cloudera&op=SETPERMISSION&permission=777

Part 3. Upload a local file from your local file system to HDFS

Create a local text file "test1.txt" and upload that file to /user/cloudera/tmp directory:
curl -i -T <path of test1.txt> -X PUT -L http://localhost:50070/webhdfs/v1/user/cloudera/tmp/test1.txt?user.name=cloudera&op=CREATE

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Create a local text file "test2.txt" and upload that file to /user/cloudera/tmp directory:
curl -i -T <path of test2.txt> -X PUT -L http://localhost:50070/webhdfs/v1/user/cloudera/tmp/test2.txt?user.name=cloudera&op=CREATE

Create a local text file "test3.txt" and upload that file to /user/cloudera/tmp directory:
curl -i -T <path of test3.txt> -X PUT -L http://localhost:50070/webhdfs/v1/user/cloudera/tmp/test3.txt?user.name=cloudera&op=CREATE

Part 4. Append new content to existing file available on HDFS

Create a local text file "test4.txt" file and append the content of this file to existing file "/user/cloudera/tmp/test3.txt":
curl -i -T <path of test4.txt> -X POST http://localhost:50070/webhdfs/v1/user/cloudera/tmp/test3.txt?user.name=cloudera&op=APPEND

Part 5. Open and Reading the contents of file available on HDFS

Read the file "test3.txt" available under /user/cloudera/tmp:
curl -i -L http://localhost:50070/webhdfs/v1/user/cloudera/tmp/test3.txt?user.name=cloudera&op=OPEN

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Part 6. Renaming a file/directory available in HDFS

Rename the file "test3.txt" available under /user/cloudera/tmp to "test3tmp.txt":

curl -i -X PUT http://localhost:50070/webhdfs/v1/user/cloudera/tmp/test3.txt?user.name=cloudera&op=RENAME&destination=/user/cloudera/tmp/test3tmp.txt

Part 7. Deleting a directory/file available in HDFS

Delete the file test1.txt file available under /user/cloudera/tmp directory:

curl -i -X DELETE http://localhost:50070/webhdfs/v1/user/cloudera/tmp/test1.txt?user.name=cloudera&op=DELETE

Delete the tmp directory created under /user/cloudera:

curl -i -X DELETE http://localhost:50070/webhdfs/v1/user/cloudera/tmp?user.name=cloudera&op=DELETE&recursive=TRUE

Part 8. Listing the status of a Directory/File available in HDFS

Get the status of /user/cloudera directory:

curl -i
http://localhost:50070/webhdfs/v1/user/cloudera?user.name=cloudera&op=GETFILESTATUS

Part 9. Listing the contents of a Directory available in HDFS

Get the contents of /user directory:
curl -i
http://localhost:50070/webhdfs/v1/user?user.name=cloudera&op=LISTSTATUS